NEC Digital Signage Solutions

40”, 46”, 55” & 70” LED-backlit, professional-grade LCD displays bundled with Intel Dual Core OPS single board computers

Take the fast track to high-quality digital signage with full PC functionality integrated directly within an NEC display. NEC’s single board computer (OPS-PCIA), boasts an Intel 1.8 GHz Dual Core Atom and adheres to the Open Pluggable Specification (OPS), the industry’s first standardized input to increase flexibility for users of any digital signage application. Combining this PC with the industrial-grade panel of the 40” NEC P403, 46” P463, 55” P553 and 70” P703, these bundles are a wonderfully simple solution for dynamic digital signage. Utilizing the expansion slot integrated into P Series displays, the PC provides for clean, hidden integration while reducing the bill of materials needed for installation and eliminating the hassle of hiding hardware equipment.

Highlights

- **Present, share and collaborate** with included DisplayNote® NEC Edition presenter license
- **Professional-grade LCD panel and components** meet even the most formidable digital signage industry requirements
- **Integrated PC (OPS-PCIA)** is optimized for reliable 1080p video playback
- **Lightweight, super-slim design** makes installations easier
- **1920 x 1080 FHD native resolution** in true 16:9 aspect ratio, maximum brightness of 700 cd/m² and typical contrast ratio of up to 4000:1
- **TileMatrix™ technology** enables video walls (up to 100 displays in a 10 x 10 matrix)
- **DisplayPort connection** adds to the already robust terminal panel
- **Integrated DVI-D Out connection** allows for simple digital daisy chain
- **Optional color calibration solution** ensures color uniformity and fidelity across individual and multiple screens, creating a perfectly matched image in tiled environments
- **Ethernet Control and Communication** provides the highest level of remote display management and includes such features as automatic email notification for diagnostic purposes
- **Carbon footprint meter** informs and motivates responsible use of the display by calculating and tracking carbon savings
- **Diverse input connectors** allow for maximum compatibility and flexibility during product implementation
- **OPS-PCIA-WH 3-year warranty** matches that of the display
- **NEC Content Management Software (CMS)**, a SaaS web-based, digital signage software, is available at no charge

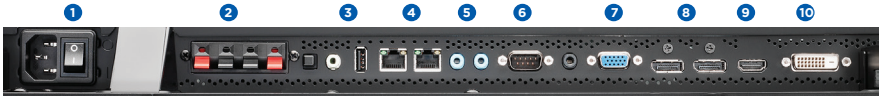
Specifications for NEC Digital Signage Solutions

MODEL	P403-PC	P463-PC	P553-PC	P703-PC
LCD MODULE				
Panel Technology	SPVA (P-DID)			
Viewable Image Size	40"	46"	55"	70"
Native Resolution	1920 x 1080			
Backlight Type	LED Edge-lit			
Brightness (Typical)	550 cd/m²			
Contrast Ratio (Typical)	4000:1			
Viewing Angle	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10			
Response Time (G-to-G)	8ms			
Aspect Ratio	16:9			
Active Screen Area (W x H)	35.1 x 19.9 in. / 892.6 x 504.2mm	40.4 x 22.8 in. / 1025.4 x 578.6mm	47.9 x 27.1 in. / 1216.6 x 687.4mm	TBD
Orientation	Landscape/Portrait			
Displayable Colors	More than 16.7 million			
CONNECTIVITY				
PC/Mac Signal Compatibility	Yes			
Input Terminals				
Digital	DisplayPort, HDMI, DVI-D			
Analog	VGA 15-pin D-sub			
Audio	Audio Mini-Jack, DisplayPort Audio, HDMI Audio			
External Control	RS-232C, LAN, DDC/CI			
Output Terminals				
Digital	DisplayPort			
Analog	n/a			
Audio	Audio Mini-Jack, External Speaker Jack (2)			
External Control	RS-232C			
POWER CONSUMPTION				
On (Typical)	110	120	150	
ECO Mode Standby	<0.5W			
PHYSICAL SPECIFICATIONS				
Bezel Width (L/R, T/B)	0.6in./0.6 in., 0.6in./0.6in.; 15.5mm/15.5mm, 15.5mm /15.5mm			
Net Dimensions (without stand; WxHxD)	36.2 x 21.0 x 2.6 in. / 920.6 x 532.2 x 66.5mm	41.6 x 24.0 x 2.5 in. / 1055.4 x 608.6 x 64.5mm	49.2 x 28.4 x 2.5 in. / 1250.2 x 721 x 64.5mm	62.5 x 36.2 x 3.4 in. / 1587 x 919.6 x 86.9mm
Net Weight (without stand)	39.7 lbs. / 18 kg	46.3 lbs. / 21 kg	59.5 lbs. / 27 kg	105.1 lbs. / 47.8 kg
VESA Hole Configuration	300 x 300mm (4-hole)		400 x 400mm	
ENVIRONMENTAL CONDITIONS				
Operating Temperature	32-122°F / 0-50°C			
Operating Humidity	20 - 80%			
Operating Altitude	9843 ft. / 3000m			
LIMITED WARRANTY	3 years parts and labor, including backlight*			
ADDITIONAL FEATURES	Advanced thermal capabilities; Ethernet Control and Communication; RS-232 Control and Communication; Landscape/portrait capable; Carbon footprint meter; Plug and Play (DDC/CI, DDC2B); Scheduler (w/ real-time clock); Screen saver function; Ambient light sensor (AmbiBright); Screen saver function; Optional human sensor; Intelligent Wireless Data (Near Field Communications); Second expansion slot; Expanded daisy chain (DP 1.2); 6-axis color adjustment; Metal rear cabinet; POP; Side-by-Side; Handles; Variable picture modes; Advanced video settings (Noise Reduction, Adaptive Contrast); Input labeling; Backlight adjust; Aspect ratio control; Built-in speakers; LED edge-lit backlighting; 10-bit color over HDMI; OPS/Expansion slot			
SHIPS WITH	Power cord; 1.8m DVI-D cable; Wireless remote control; Batteries; CD-ROM (user manual); Option board slot cover; Screws; Thumbscrews			
OPTIONAL ACCESSORIES	Display Wall Calibrator Kit (KT-LFD-CC)			

Specifications for OPS-PCIA-WH

Operating System	Microsoft Windows 7® Embedded	Graphics Format Support	JPEG, BMP, TIFF, GIFF
CPU	1.8 GHz Dual Core Atom with ION2	Browser Support	HTML, Flash, Javascript
GPU	Nvidia GT218A	Audio Format Support	MP3, PCM, AAC
RAM	2 GB DDR3	Network Protocol Support	Internet (IP, TCP, UDP, ICMP, ARP, DHCP, HTTP, FTP, IGMP, RTP, RTSP, SNMP)
Hard Drive	250GB HDD	Power	16VDC Input Voltage, Power Dissipation (35W)
Video Output	Internal DVI, External DisplayPort	Operating Temperature	32° - 104°F / 0° - 40°C
Audio Output	Internal Stereo, External DisplayPort	Operating Humidity	80% maximum relative humidity, non-condensing
Network Connections	Gigabit Ethernet	Dimensions (W x H x D)	7.1 x 1.2 x 4.6 in. / 180 x 30 x 118mm
Control I/O	USB 2.0 x 4	Weight	2.5 lbs. / 1.2 kg
Video Format Support	1080p, MPEG/2, H.264, WM9	Certifications	CE, FCC Section 15

Display Input Panel



Display Input Panel
1. Vacation Switch
2. Stereo Mini-Jack (2)
3. External Speaker Jack
4. LAN Port
5. Audio Mini-Jack In/Out
6. RS-232C In/Out
7. VGA D-Sub In
8. DisplayPort In/Out
9. HDMI In
10. DVI-D In

OPS-PCIA-WH Input Panel

OPS Input Panel
1. Ethernet
2. DisplayPort
3. USB
4. USB

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DisplayNote NEC Edition

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